Claim Listing

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- 25. (Amended.) A method for protecting a material from tick <u>or cockroach</u> infestation, comprising treating the material with an effective amount of a compound selected from the group consisting of nootkatone, α-cedrene, zizanol, and bicyclovetivenol, wherein the treated material repels or kills ticks substantially more than does an otherwise identical
- 5 material that has not been treated with the compound.
- 26. A method as in Claim 25, wherein the treated material repels ticks.
- 1 27. A method as in Claim 25, wherein the treated material kills ticks.
- 28. A method as in Claim 25, wherein the material is selected from a group consisting of soil, synthetic polymers, diatomaceous earth, sand, and cellulose-containing materials.
- 29. A method as in Claim 25, wherein the compound is nootkatone.
- 30. A method as in Claim 25, wherein the compound is α -cedrene.
- 1 **31.** A method as in Claim 25, wherein the compound is zizanol.

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- 1 32. A method as in Claim 25, wherein the compound is bicyclovetivenol.
- 1 33. A method as in Claim 25, additionally comprising treating the material with one or
- 2 more additional, different compounds selected from the group consisting of nootkatone,
- α -cedrene, zizanol, and bicyclovetivenol.
- 4 **34. 46.** Cancelled.
- 1 47. A topical composition for application to the skin or fur of a mammal for protection
- 2 against ticks, said composition comprising an effective amount of a compound selected
- from the group consisting of nootkatone, α -cedrene, zizanol, and bicyclovetivenol, and a
- 4 pharmaceutically accepted carrier, wherein said composition when applied topically repels
- or kills ticks substantially more than does an otherwise identical composition that lacks the
- 6 compound.
- 1 48. A composition as in Claim 47, wherein said compound is nootkatone.
- 49. A composition as in Claim 48, wherein the concentration of nootkatone in said
- composition is between about 10 μg/g and about 1000 μg/g.
- 1 50. A composition as in Claim 48, wherein the concentration of nootkatone in said
- 2 composition is between about 10 μ g/g and about 200 μ g/g.
- 1 **51.** A composition as in Claim 47, wherein said compound is zizanol.
- 1 **52.** A composition as in Claim 47, wherein said compound is bicyclovetivenol.

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- 1 53. A composition as in Claim 47, wherein said compound is α -cedrene.
- 1 **54.** A composition as in Claim 47, additionally comprising a composition with a one or
- 2 more additional, different compounds selected from the group consisting of nootkatone,
- α -cedrene, zizanol and bicyclovetivenol.
 - 55. 74. Cancelled.
- 75. A method as in Claim 25, wherein the treated material repels cockroaches.